

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): An apparatus for analysing at least one sample in an array of samples, the apparatus comprising:

(a) an image recorder that records the position of the at least one sample relative to the other samples in the array;

(b) a dispensing device that applies a reagent or sequence of reagents to the at least one sample *in situ*;

(c) an analyser that analyses the at least one sample for a reaction to or with the reagent or the sequence of reagents; and

(d) a chemical dispensing control unit that controls the dispensing device, which applies the reagent or the sequence of reagents to the at least one sample according to the position of the at least one sample relative to the other samples in the array determined by the image recorder.

2. (original): The apparatus according to claim 1 further including a recorder of the analysis results obtained by the analyser.

3. (original): The apparatus according to claim 1 wherein the image recorder is selected from the group consisting of scanner, photodetector, and charge-coupled device.

4. (original): The apparatus according to claim 1 wherein the dispensing device is a chemical printer adapted to apply one or more reagents to the at least one sample.

5- 10. (canceled).

11. (original): The apparatus according to claim 1 wherein the analyser is selected from the group consisting of liquid chromatograph, photoelectrical detector, photochemical detector, laser detector, radiochemical detector, and mass spectrometer.

12. (original): The apparatus according to claim 1 wherein the chemical dispensing control unit is a computer programmed to control the dispensing device.

13. (currently amended): The apparatus according to claim 1, further comprising a semi-solid or substantially solid support, wherein the array of samples is on the a semisolid or substantially solid support.

14. (currently amended): A combination, comprising:
the The apparatus according to claim 13, and
the at least one sample, wherein the at least one sample analysed has an area less than 100 mm².

15. (currently amended): A combination, comprising:

~~the~~The apparatus according to claim 13, ~~and~~
~~the at least one sample,~~ wherein the at least one sample analysed has an area less than 50
mm².

16. (currently amended): A combination, comprising:
~~the~~The apparatus according to claim 13, ~~and~~
~~the at least one sample,~~ wherein the at least one sample analysed has an area of 1 to 10
mm².

17. (original): The apparatus of claim 1 wherein the dispensing device is a jetting
device.

18. (original): The apparatus of claim 1 wherein the analyser is a MALDI-TOF
spectrometer or LDI-TOF mass spectrometer.

19. (original): The apparatus of claim 1 wherein the image recorder is an image
acquisition system comprising a digital camera and a computer.

20. (canceled).

21. (original): The apparatus of claim 1 wherein the image recorder is a charge-coupled
device.

22- 24. (canceled).

25. (original): The apparatus according to claim 4 wherein the chemical printer is controlled by a program.

26. (original): The apparatus according to claim 1 wherein the image recorder comprises a charge-coupled device.